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TITLE : MANGANESE OXIDE, ITS PRODUCTION AND USE THEREOF

ABSTRACT : PROBLEM TO BE SOLVED: To produce  $Mn_3O_4$ , hardly contaminated with impurities and having a large grain diameter and high filling properties, to provide a method for producing the  $Mn_3O_4$  and further to produce a lithium manganese compound oxide, available by using the resultant  $Mn_3O_4$  and having a large grain diameter and high filling properties.

SOLUTION: This method for producing  $Mn_3O_4$  having a BET specific surface area within the range of 3-18m<sup>2</sup>/g comprises reacting metallic manganese in an acidic solution at pH≤5.0. The resultant  $Mn_3O_4$  is then mixed with a lithium salt and the prepared mixture is subsequently baked to produce a lithium manganese compound oxide having a specific surface area within the range of 1-3m<sup>2</sup>/g.

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